

Animate-file

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# Run with the -i option: "python -i animate.py"

# Import the modules needed for the tutorial
import vcs, cdms, cdutil, time, os, sys

# Open data file:
filepath = os.path.join(sys.prefix, 'sample_data/clt.nc')
cdmsfile = cdms.open( filepath )

# Extract a 3 dimensional data set and get a subset of the time dimension
data = cdmsfile('clt', \
                 time=('1980-1-1 0:0:0.0', '1980-12-1 0:0:0.0'), \
                 longitude=(-180, 180), latitude = (-90., 90.))

# Initialize VCS:
v = vcs.init()

# Plot data using the default isofill graphics method:
v.isofill( data )

# Create the images required for animation
# The "thread_it" option waits for the animation to be created before
# moving onto the next command.
v.animate.create( thread_it = 0 )

# Run the animation using the images created
v.animate.run( )

# Stop the animation
v.animate.stop( )

# Run the animation and pause between frames
v.animate.run( )
v.animate.pause( 3 )

# Zoom in on the animated frames
v.animate.zoom( 2 )

# Move the animation horizontally to the up and down
v.animate.horizontal( 50 )

# Move the animation vertically left and right
v.animate.vertical( 50 )

# Stop the animation and view frame 5, 10, and 15
v.animate.stop( )
v.animate.frame( 3 )
v.animate.frame( 5 )
v.animate.frame( 10 )

# Control the animate via the animation GUI
v.animate.gui( )
```